

Declass Review by NGA.

9 August 1961

Chick:

In this letter Phil has attempted to summarize the seven assignments of the contract and the five technical directives that have been issued to implement them. In closely scrutinizing his description of the assignments and TD's and comparing them with the language of the contract, I find that they are generally descriptive of the contract, although being interpretative in nature may emphasize certain points that are at variance with your own ideas on the subject. Since the language of the contract is broad and sometimes rather vague, this would be entirely understandable. What Phil is attempting to do at this particular time is to set the stage for future action by summarizing as he sees it the contractual background that is the legal basis of our relationship.

As to where we are going with this particular contract, I would make the following recommendations:

- (1) Reissue the contract with a reduced scope of work by redefining (or eliminating) the seven assignments.
- (2) Allocate the unexpended funds left in the contract to the redefined assignments. This would serve as a budget (or working plan) for each assignment and would act as a control mechanism for the contract. As you know, this is a CPFF contract. I feel that it should not overrun. If it does, we will continue to pay the costs but will get no additional fee, a situation that I doubt they will want to continue very long.
- (3) After we have expended the funds in the current contract, terminate it. If we wish to continue utilizing services, issue a new Task Order with new funding. This will enable us to redefine our goals in terms of realizable objectives and current problems rather than continue working on the outmoded contractual framework set up a year or two earlier under entirely different circumstances.

In terms of reissuing the contract for FY62 with a reduced scope, I would like to make the following suggestions concerning the Assignments.

Assignment I (System Design)

Rewrite the Assignment in terms of proposed FY62 activities and estimate cost. This need not be specific in every case but should provide the general framework for issuing future TD's.

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Assignment II (Space Layout)

Same as Assignment I. The first two Assignments will probably require the bulk of the funding.

Assignment III (Photo Chemical Facility)

Retain in present form; estimate cost to complete.

Assignment IV (PI Cell)

Omit; it would appear unlikely that this will be picked up as it was initially conceived. Any work along this line could probably be included under Assignment I.

Assignment V & VI (PI Visual Indicator Criteria and Location Factors)

Combine into single assignment covering consultant services for PI substantive matters. Estimate cost.

Assignment VII (Procurement Services)

Omit. We have not utilized this provision as yet and I can see little reason to do so in the future. This was a good "banking" device at the time the contract was written but we don't need it now.

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9 August 1961

JWC
Aug 61

TO:

FROM:

SUBJECT: Proposed Technical Directives for FY '62

It is my understanding that all technical directives will be processed and handled through you. From you they will be passed on to Chick and to other division chiefs. It is my understanding that we hope to gain by this 1) a clarification of technical language so often involved in the writing of these directives and 2) an overall coherence of the "system".

In preparing these directives, it is also my understanding that:

1. The directives prepared by are being prepared for the various division chiefs. Upon approval, these will be issued by NPIC to
2. The directives will be prepared as staff studies since they will involve others than the division chiefs directly concerned.
3. The contractual vehicle will be kept in mind. Directives will first be proposed for the completion of the present contract. Any other directives may possibly be included under a separate task order.

With reference to the contract, I agree that it is important to anticipate the completion of the present task order. The first order of business, therefore, is to put into motion those directives which will finish up the present task order. The second order of business will be to consider anything over and above this task order which may or may not be added to the contract.

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Rec. 13- (3)

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25X1 In our present contract, [] under Task Order 01/0/18132, seven assignments are called out under Section I, Scope of Work. These have been discussed in Phil's letter of 2 August to Chick. Assignment I, for the overall systems analysis, has been and is still in process. Assignment II, for the layout of [] also has been and is still in process. Assignment III, for the Photochemical Solutions Laboratory, has recently been received as a technical directive and is in process according to the directions received from you in our meeting during the week of 24 July. Assignment IV, for the PI cell, was to be deleted from the contract by [] letter of 13 June 1961 to [] However, Phil recommended that this be included in the FY '62 scope of work. Assignment V, for PI keys, has not been implemented nor has any proposal been prepared along these lines. Assignment VI, for location factors, was put into effect with the issuance of a technical directive on 15 February 1961 for the advisory services of [] Finally, Assignment VII, for procurement services, was put off by [] letter of 13 June 1961. In his 2 August letter, Phil recommended that Assignment VII also be included in FY '62 requirements.

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This leaves us with four assignments in process (I, II, III, and VI), two assignments put off for the time being (IV and VII), and one not yet considered (V). This then is the general contractual framework within which we are working.

With this as a background, we have a number of technical directives which we would like you to consider. Since there are so many and since they do involve some time to prepare as staff studies, I will mention them to you briefly with the suggestion that you indicate those which sound promising. The ones so indicated will be prepared as proposed technical directives to be submitted to Chick and others for their concurrence.

1. Technical Intelligence Follow-on

This TD, which has already been submitted, was the subject of our meeting with Dutch and Jack on 26 July. This directive is now under consideration by NPIC. If approved, this should be included as a TD under Assignment I.

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2. Data Handling

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In the same meeting held on 26 July, Dutch asked whether or not the [] design included wire raceways from the EDP to the PI areas. If you recall, I said that no such provision was being included. This brings up the point that we should look at the long range data handling picture with the idea of including EDP as an on-line PI capability, in which case wire raceways will be included. If such a directive is suggested, it will cover the entire data handling system (excluding scientific computation activities). By so doing, we should be able to gauge whether or not the present EDP concept will endure and what other capabilities may be considered. This would also fall under Assignment I.

3. Semi-automatic Film Handling (Wash-Dry)

Some time ago, a film drying concept was suggested. By this method all film will be washed and dried without being handled by photo lab personnel. Such a system is still strongly recommended. This should be considered as Technical Directive No. 2 of Assignment III.

4. Photographic Material Handling

The proposed very high quality output of the photographic reproduction system will depend on a) the facility, b) equipment, c) personnel, and d) the operating procedures. The facility and the photochemical laboratory are now being designed. The equipment is on hand. However, it is still unlikely that the photo lab, without specific operating procedures, will have much more than a 50 line per mm. reproduction capability. A technical directive is suggested for the purpose of investigating and establishing the proper and best usage of handling photographic materials and equipment for the purpose of increasing this capability. This effort will result in the identification of a total system and the issuance of an operations manual covering all phases of photographic reproduction from the original negative and extending through any form used by NPIC. These procedures will be developed to make optimum

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John C.

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9 August 1961

use of equipment on hand or equipment available, the skills of photo lab personnel, the capabilities of the photo lab, and the quality of chemicals produced by the solutions laboratory. This technical directive would be TD No. 3 of Assignment III.

5. Long Range Development Plan

Based on program information provided by the Chief of TPDS, it is proposed that a long range (five year) technical development program be established. Project people will work with and support the staff of the Technical Development Branch in the identification of program parameters. In addition to being based on future program inputs, this plan will consider the technical factors now limiting the quality of film. The plan will include R&D requirements, equipment developments and new techniques as they may be needed in the coming five year period.

6. Technical Intelligence Training Program

In association with a recognized educational institution and under the guidance of the TIB staff, a study plan and associated course material will be developed for a course in photogrammetry and technical intelligence. Source material will include all applicable mathematical problems derived to date [] and other text material now available. It will also include equipment orientation and instruction in general photogrammetric procedures as they apply to NPIC. The course of study will be developed so that instructions may be given by any qualified institution. Target date for the completion of this effort will be June 1962.

7. Photo Analysis Training Course

Parallel, but not identical to the above training course in photogrammetry, will be a course of instruction in photo analysis. This course of instruction will be developed under the guidance of PAD/PAG and in association with a

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qualified human factors association and/or a qualified educational institution. The course of material will include a study plan, specific course material, and equipment indoctrination. Additionally, this program will set up a basis of selection of photo interpreters. The selection will include psychology tests as well as optometry tests for the determination of visual capabilities. Target date for completion will be June 1962.

8. Film Cleaning

At present, NPIC uses a [] roll film cleaner which operates manually and uses a roller adhesive principle. The cleaning roller tends to pick up impurities which, in turn, are sources of film contamination. This is but one method of cleaning film. There are others now commercially available or applicable to this requirement. An ultrasonic cleaning method using "Freon" might be more satisfactory provided the process does not inhibit the desired rate of film handling. It is suggested that a requirement for such an equipment be prepared and issued to industry for their technical proposals and bids. This effort could be accommodated under Assignment VII of the contract.

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9. Special Aspects of []

This will be a continuation of special A&E services for [] At this time the detailed requirements of the computer areas, the instrument rooms, clean areas, and photo lab have not been specified. These requirements will be added in and modified throughout the term of the GSA contract with the D. C. office. This falls under Assignment II.

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All of the above suggested directives (with three exceptions) could be handled under the present task order. The ones that probably can't are the technical directives for training and for long range planning (5, 6, and 7). All, except the TD for technical intelligence, could be completed by 30 June 1962. The directive for technical intelligence will extend up to and past the time of delivery of the proposed computer.

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John C. -6- 9 August 1961

Will you now indicate those TD's which provoke any spark of interest. We have a good amount of backup material for each one of these suggestions. Whether or not we should now propose these we will leave up to you.

To say the least, we are most anxious to clarify the status of these as soon as possible. Please don't hesitate to call me if any of these suggestions have to be augmented with further explanation.

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Tad

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MEMORANDUM FOR: *Rec'd -*
Answered by negative
12 Nov 62
JWC

(DATE)

FORM NO. 101 REPLACES FORM 10-101
1 AUG 54 WHICH MAY BE USED.

(47)

Draft

Attachment No. _____

21 July 1966

TECHNICAL DIRECTIVE

Subject: Technical Analysis Support to TPDS

1. Objective

This program will provide detailed specifications and analyses of technical requirements of equipment to be developed for the Technical Plans and Development Staff. These specifications will provide a basis for identifying and demonstrating performance requirements to be met by the Contractor as a method of determining contractual responsibilities.

2. Scope of Work

The Technical Staff of [] Special Projects Division will confer with TPDS regarding types of equipment which are under consideration for the Center and will assist in determining specific performance requirements of such equipment by making a basic analysis of the job that the equipment is expected to perform and how the job might best be accomplished. [] will then assist in working out detailed specifications of these requirements for inclusion in an RFP. The purpose of such a procedure is to place the responsibility for performance where it belongs namely, with the vendor and to have this responsibility clearly delineated. [] will also assist, where requested, in the evaluation of proposals as to their responsiveness to requirements, or as to their value, if in

21 July TPDS Support

some manner, they are not entirely responsive. It will also supply engineering assistance, where requested, in evaluating the technical competence of a proposed approach to a design problem. Personnel will be assigned to such problems as requested. On the basis of experience to date, such effort will consume approximately 9 man months during the fiscal year.

3. Detailed Discussion

High precision technical equipment is extremely expensive and provides an excellent medium for R&D efforts by developers of electronic and electro-optical equipment. The vendors of this equipment are sometimes optimistic with respect to results to be expected from their efforts and can be helpful in providing impartial engineering evaluation of the technical competence of proposals and recommendation of methods of evaluating vendor efforts during the design and fabrication.

4. Schedule

Effort under this TD will be supplied as requested by TPDS.